

# PDR RID Report

**Originator** Sue Barry  
**Organization** JPL/MISR  
**E Mail Address** sue.barry@jpl.nasa.gov  
**Document**

**Phone No** (818)354-9126

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**Section**

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**Figure Table**

**Category Name** Design **Actionee** HAIS  
**Sub Category**  
**Subject** Transfer of Authority to Command the Spacecraft.

## **Description of Problem or Suggestion:**

If a user is commanding the spacecraft and another authorized user comes on-line, his or her authority would be transferred to the new user. Could this be a problem if the original user did not anticipate a loss of control and was not finished with the commanding activity? How will the handover be accomplished?

## **Originator's Recommendation**

Clarify how command authority is transferred.

## **GSFC Response by:**

**GSFC Response Date**

**HAIS Response by:** D. Herring

**HAIS Schedule** 1/13/95

**HAIS R. E.** D. Dunn

**HAIS Response Date** 1/6/95

Command authority is granted to an EOC user that explicitly requests the privilege to command a spacecraft after it is determined by software that the user is pre-approved to hold the privilege. A user cannot assume command authority by simply connecting to a specific real-time operational logical string.

Transition of command authority from one EOC user to another is accomplished by a software switch. Command authority is not a session or a software task that executes. When authority is requested and granted to a new user, a flag is updated to reflect the new authorized user within a logical string. Command authority is revoked from the previous user and granted to the new user in a single step.

Command authority will be granted to pre-authorized users within the EOC only. It is expected that EOC users will communicate to coordinate the transfer of control from one to another. In the case of a spacecraft emergency it is of the utmost importance for the user requiring command authority to be able to seize it as quickly as possible. Therefore, no timeouts or requests of the current command authority user to relinquish the privilege are planned.

In the case of a command load, the load will continue to execute when command authority changes. At any time, only the EOC user with command authority can start, stop or suspend execution of the load.

**Status** **Closed**

**Date Closed** **2/1/95**

**Sponsor** **Johns**

\*\*\*\*\* **Attachment if any** \*\*\*\*\*